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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/893,938	06/27/2001	Raouf Botros	SDP273PA	6293
75	590 12/23/2003		EXAM	INER
Law Office of Barbara Joan Haushalter			SHOSHO, CALLIE E	
228 Bent Pines Bellefontaine,			ART UNIT PAPER NUM	
			1714	
			DATE MAILED: 12/23/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

* *	Application No.	Applicant(s)	
	09/893,938	BOTROS ET AL.	6
Office Action Summary	Examiner	Art Unit	
	Callie E. Shosho	1714	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence addre	9SS
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a rep. It reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONTI atule, cause the application to become ABA	ly be timely filed (30) days will be considered timely. 1S from the mailing date of this comr NDONED (35 U.S.C.§ 133).	nunication.
1) Responsive to communication(s) filed on 2	<u> 1 November 2003</u> .		
2a)☐ This action is FINAL . 2b)☑ T	his action is non-final.		
Since this application is in condition for alloclosed in accordance with the practice und			nerits is
Disposition of Claims			
4) □ Claim(s) 1,5,7-14 and 17-20 is/are pending 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1,5,7-14,17-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers	·		
9)☐ The specification is objected to by the Exan	miner.		
10) The drawing(s) filed on is/are: a)		y the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co			
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO	-152.
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a 13) Acknowledgment is made of a claim for dom since a specific reference was included in the 37 CFR 1.78. a) The translation of the foreign language 14) Acknowledgment is made of a claim for dom reference was included in the first sentence of	nents have been received. nents have been received in Appriority documents have been rereau (PCT Rule 17.2(a)). It list of the certified copies not restic priority under 35 U.S.C. § e first sentence of the specifical provisional application has be nestic priority under 35 U.S.C. §	pplication No eceived in this National Steeceived. 119(e) (to a provisional ation or in an Application Den received. 120 and/or 121 since a	application) ata Sheet. specific
Attachment(s)	_		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No	5) Notice of Inf	ımmary (PTO-413) Paper No(s). ormal Patent Application (PTO-1	

Art Unit: 1714

DETAILED ACTION

1. All outstanding rejections are overcome by applicants' amendment filed 11/21/03.

In light of the new grounds of rejection as set forth below, the finality of the previous office action mailed 9/18/03 has been withdrawn and thus, the following action is non-final.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

Application Number: 09/893,938

Art Unit: 1714

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1, 9-14, 17-18, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bates et al. (U.S. 5,958,999) in view of either Gundlach et al. (U.S. 6,258,873) or Moffatt et al. (U.S. 6,323,257).

Bates et al. disclose ink comprising water, 0.01-10% ethoxylated polyethyleneimine, ammonium sulfate, biocide, surfactant, humectant including alcohol, and dimethylethanolamine to modify the pH. It is disclosed that the pH of the ink is greater than 7 (col.3, lines 37-39, col.5, lines 58-61, col.6, lines 27-38, col.7, lines 26-27, and col.17, lines 55-56).

The difference between Bates et al. and the present claimed invention is the requirement in the claims of (a) thickener and (b) amount of dimethylethanolamine.

With respect to difference (a), Gundlach et al. which is drawn to ink jet inks, disclose the use of 0.1-5% viscosity building compound such as guar gum (col.17, lines 53-59 and col.18, lines 7-12).

Alternatively, Moffatt et al., which is drawn to ink jet inks, disclose the use of up to 3% guar gum in order to improve optical density and print quality of the ink (col.17, lines 27-31 and 34).

In light of the motivation for using thickener, i.e. guar gum, disclosed by either Gundlach et al. or Moffatt et al. as described above, it therefore would have been obvious to one of ordinary skill in the art to use guar gum in the ink of Bates et al. in order to produce ink with

Application Number: 09/893,938

Art Unit: 1714

Page 4

desired viscosity, or alternatively, improved optical density and print quality, and thereby arrive at the claimed invention.

With respect to difference (b), there is no explicit disclosure in Bates et al. of the amount of dimethylethanolamine utilized. From example 16, it is clear that dimethylethanolamine is used to control the pH of the ink. Thus, it therefore would have been obvious to one of ordinary skill in the art to choose amounts of dimethylethanolamine, including those presently claimed, to control the pH of the ink to desired values.

5. Claims 5 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bates et al. in view of Gundlach et al. or Moffatt et al. as applied to claims 1, 9-14, 17-18, and 20 above, and further in view of Kashiwazaki et al. (U.S. 6,011,098).

The difference between Bates et al. in view of Gundlach et al. or Moffatt et al. and the present claimed invention is the requirement in the claims of specific type and amount of surfactant.

Bates et al. broadly disclose the use of surfactant with no disclosure of specific types or amounts utilized.

Kashiwazaki et al., which is drawn to ink jet inks, disclose the use of 0.01-5% surfactants including anionic and nonionic surfactant in order to produce ink with specific surface tension so that the ink possess good wetting properties and therefore print properly from printer (col.8, lines 29-47).

Application Number: 09/893,938

Art Unit: 1714

In light of the above, it therefore would have been obvious to one of ordinary skill in the art to use anionic or nonionic surfactant in Bates et al. in amounts, including that presently claimed, in order to produce ink with good wetting properties and thus good printing properties, and thereby arrive at the claimed invention.

6. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bates et al. in view of Gundlach et al. or Moffatt et al. as applied to claims 1, 9-14, 17-18, and 20 above, and further in view of Hayes (U.S. 4,150,997).

The difference between Bates et al. in view of Gundlach et al. or Moffatt et al. and the present claimed invention is the requirement in the claims of fluorescent dye.

Bates et al. discloses the use of dyes, however, there is no disclosure of fluorescent dyes as presently claimed.

Hayes, which is drawn to ink jet inks, disclose the use of fluorescent dyes in order to improve the contrast between the writing medium and the ink (col.2, lines 14-16).

In light of the motivation for using fluorescent dye disclosed by Hayes as described above, it therefore would have been obvious to one of ordinary skill in the art to use fluorescent dye in the ink of Bates et al. in order to improve the contrast between the writing medium and the ink, and thereby arrive at the claimed invention.

Art Unit: 1714

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Callie E. Shosho whose telephone number is 571-272-1123. The

examiner can normally be reached on Monday-Friday (6:30-4:00) Alternate Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Callie E. Shosho Primary Examiner Art Unit 1714

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Page 6

CS 12/11/03